

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/158,120BDATE: 03/01/2000
TIME: 19:04:43

INPUT SET: S34912.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

1
2
3 (1) General Information:
4 (i) APPLICANT: JOHNSON, L.
5 (ii) TITLE OF INVENTION: Human Murine Chimeric Antibodies
6 Against Respiratory Syncytical Virus
7 (iii) NUMBER OF SEQUENCES: 49
8 (iv) CORRESPONDENCE ADDRESS:
9 (A) ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
10 CECCHI,
11 STEWART & OLSTEIN
12 (B) STREET: 6 BECKER FARM ROAD
13 (C) CITY: ROSELAND
14 (D) STATE: NEW JERSEY
15 (E) COUNTRY: USA
16 (F) ZIP: 07068
17 (v) COMPUTER READABLE FORM:
18 (A) MEDIUM TYPE: 3.5 INCH DISKETTE
19 (B) COMPUTER: P160
20 (C) OPERATING SYSTEM: Windows95
21 (D) SOFTWARE: MS Word 97
22 (vi) CURRENT APPLICATION DATA:
23 (A) APPLICATION NUMBER: 09/158,120
24 (B) FILING DATE: September 21, 1998
25 (C) CLASSIFICATION: 424
26 (vii) PRIOR APPLICATION DATA
27 (A) APPLICATION NUMBER: 08/290,592
28 (B) FILING DATE: August 15, 1994
29 (A) APPLICATION NUMBER: 07/813,372
30 (B) FILING DATE: December 23, 1991
31 (viii) ATTORNEY/AGENT INFORMATION:
32 (A) NAME: Olstein, Elliot M.
33 (B) REGISTRATION NUMBER: 24,025
34 (C) REFERENCE/DOCKET NUMBER: 469201-367
35 (ix) TELECOMMUNICATION INFORMATION:
36 (A) TELEPHONE: 973-994-1700
37 (B) TELEFAX: 973-994-1744
38
39
40
41
42
43 (2) INFORMATION FOR SEQ ID NO:1:
44 (i) SEQUENCE CHARACTERISTICS:
45 (A) LENGTH: 27 BASE PAIRS
46 (B) TYPE: NUCLEIC ACID

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/158,120BDATE: 03/01/2000
TIME: 19:04:43

INPUT SET: S34912.raw

47 (C) STRANDEDNESS: SINGLE
48 (D) TOPOLOGY: LINEAR
49 (ii) MOLECULE TYPE: Oligonucleotide
50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
51 AGCGGATCCA GGGGCCAGTG GATAGAC
52
53 (2) INFORMATION FOR SEQ ID NO:2:
54 (i) SEQUENCE CHARACTERISTICS:
55 (A) LENGTH: 17 NUCLEOTIDES
56 (B) TYPE: NUCLEIC ACID
57 (C) STRANDEDNESS: SINGLE
58 (D) TOPOLOGY: LINEAR
59 (ii) MOLECULE TYPE: Oligonucleotide
60 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
61 TGGATGGTGG GAAGATG 17
62
63 (2) INFORMATION FOR SEQ ID NO:3:
64 (i) SEQUENCE CHARACTERISTICS:
65 (A) LENGTH: 15 NUCLEOTIDES
66 (B) TYPE: NUCLEIC ACID
67 (C) STRANDEDNESS: SINGLE
68 (D) TOPOLOGY: LINEAR
69 (ii) MOLECULE TYPE: Oligonucleotide
70 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
71 GGCCAGTGGG TAGAC15
72
73 (2) INFORMATION FOR SEQ ID NO:4:
74 (i) SEQUENCE CHARACTERISTICS:
75 (A) LENGTH: 16 NUCLEOTIDES
76 (B) TYPE: NUCLEIC ACID
77 (C) STRANDEDNESS: SINGLE
78 (D) TOPOLOGY: LINEAR
79 (ii) MOLECULE TYPE: Oligonucleotide
80 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
81 TACAGTTGGT GCAGCA16
82
83 (2) INFORMATION FOR SEQ ID NO:5:
84 (i) SEQUENCE CHARACTERISTICS:
85 (A) LENGTH: 24 NUCLEOTIDES
86 (B) TYPE: NUCLEIC ACID
87 (C) STRANDEDNESS: SINGLE
88 (D) TOPOLOGY: LINEAR
89 (ii) MOLECULE TYPE: Oligonucleotide
90 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
91 GATGGATCCA GTTGGTGCAG CATC24
92
93 (2) INFORMATION FOR SEQ ID NO:6:
94 (i) SEQUENCE CHARACTERISTICS:
95 (A) LENGTH: 30 NUCLEOTIDES
96 (B) TYPE: NUCLEIC ACID
97 (C) STRANDEDNESS: SINGLE
98 (D) TOPOLOGY: LINEAR
99 (ii) MOLECULE TYPE: Oligonucleotide

27

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/158,120BDATE: 03/01/2000
TIME: 19:04:44

INPUT SET: S34912.raw

100 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
101 CACGTCGACA TTCAGCTGAC CCAGTCTCCA 30
102
103 (2) INFORMATION FOR SEQ ID NO:7:
104 (i) SEQUENCE CHARACTERISTICS:
105 (A) LENGTH: 30 NUCLEOTIDES
106 (B) TYPE: NUCLEIC ACID
107 (C) STRANDEDNESS: SINGLE
108 (D) TOPOLOGY: LINEAR
109 (ii) MOLECULE TYPE: Oligonucleotide
110 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
111 CGGAATTCAG GTNNANCTGC AGNAGTCWGG 30
112
113 (2) INFORMATION FOR SEQ ID NO:8:
114 (i) SEQUENCE CHARACTERISTICS:
115 (A) LENGTH: 28 NUCLEOTIDES
116 (B) TYPE: NUCLEIC ACID
117 (C) STRANDEDNESS: SINGLE
118 (D) TOPOLOGY: LINEAR
119 (ii) MOLECULE TYPE: Oligonucleotide
120 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
121 CCAAGCTTG GTCCCCCTC CGAACGTG 28
122
123 (2) INFORMATION FOR SEQ ID NO:9:
124 (i) SEQUENCE CHARACTERISTICS:
125 (A) LENGTH: 39 NUCLEOTIDES
126 (B) TYPE: NUCLEIC ACID
127 (C) STRANDEDNESS: SINGLE
128 (D) TOPOLOGY: LINEAR
129 (ii) MOLECULE TYPE: Oligonucleotide
130 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
131 GGCGTCGACT CACCATGGAC ATGAGGGTCC YCGCTCAGC 39
132
133 (2) INFORMATION FOR SEQ ID NO:10:
134 (i) SEQUENCE CHARACTERISTICS:
135 (A) LENGTH: 57 NUCLEOTIDES
136 (B) TYPE: NUCLEIC ACID
137 (C) STRANDEDNESS: SINGLE
138 (D) TOPOLOGY: LINEAR
139 (ii) MOLECULE TYPE: Oligonucleotide
140 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
141 GTCACCATCA CTTGCAAGTG CCAGCTGAGT GTAGGTTACA TGCACTGGTA CCAGCAG 57
142
143 (2) INFORMATION FOR SEQ ID NO:11:
144 (i) SEQUENCE CHARACTERISTICS:
145 (A) LENGTH: 54 NUCLEOTIDES
146 (B) TYPE: NUCLEIC ACID
147 (C) STRANDEDNESS: SINGLE
148 (D) TOPOLOGY: LINEAR
149 (ii) MOLECULE TYPE: Oligonucleotide
150 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
151 GCAACTTATT ACTGCTTTCA GGGGAGTGGG TACCCATTCA CGTTCGGAGG GGGG 54
152

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/158,120BDATE: 03/01/2000
TIME: 19:04:44

INPUT SET: S34912.raw

153 (2) INFORMATION FOR SEQ ID NO:12:
154 (i) SEQUENCE CHARACTERISTICS:
155 (A) LENGTH: 32 NUCLEOTIDES
156 (B) TYPE: NUCLEIC ACID
157 (C) STRANDEDNESS: SINGLE
158 (D) TOPOLOGY: LINEAR
159 (ii) MOLECULE TYPE: Oligonucleotide
160 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
161 GTGACCAACA TGGACCTGC TGATACTGCC AC 32
162

163 (2) INFORMATION FOR SEQ ID NO:13:
164 (i) SEQUENCE CHARACTERISTICS:
165 (A) LENGTH: 29 NUCLEOTIDES
166 (B) TYPE: NUCLEIC ACID
167 (C) STRANDEDNESS: SINGLE
168 (D) TOPOLOGY: LINEAR
169 (ii) MOLECULE TYPE: Oligonucleotide
170 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
171 CCATGTTGGT CACTTTAAGG ACCACCTGG 29
172

173 (2) INFORMATION FOR SEQ ID NO:14:
174 (i) SEQUENCE CHARACTERISTICS:
175 (A) LENGTH: 37 NUCLEOTIDES
176 (B) TYPE: NUCLEIC ACID
177 (C) STRANDEDNESS: SINGLE
178 (D) TOPOLOGY: LINEAR
179 (ii) MOLECULE TYPE: Oligonucleotide
180 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:
181 CCAGTTTACT AGTGT CATAG ATCAGGAGCT TAGGGGC 37
182

183 (2) INFORMATION FOR SEQ ID NO:15:
184 (i) SEQUENCE CHARACTERISTICS:
185 (A) LENGTH: 37 NUCLEOTIDES
186 (B) TYPE: NUCLEIC ACID
187 (C) STRANDEDNESS: SINGLE
188 (D) TOPOLOGY: LINEAR
189 (ii) MOLECULE TYPE: Oligonucleotide
190 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:
191 TGACACTAGT AAAGTGGCTT CTGGGGTCCC ATCAAGG 37
192

193 (2) INFORMATION FOR SEQ ID NO:16:
194 (i) SEQUENCE CHARACTERISTICS:
195 (A) LENGTH: 97 AMINO ACIDS
196 (B) TYPE: AMINO ACID
197 (D) TOPOLOGY: LINEAR
198 (ii) MOLECULE TYPE: PROTEIN
199 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:
200 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
201 5 10 15
202
203 Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Asn
204 20 25 30
205

RAW SEQUENCE LISTING PATENT APPLICATION US/09/158,120B

DATE: 03/01/2000
TIME: 19:04:44

INPUT SET: S34912.raw

```

206 Ser Tyr Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
207                               35                               40                               45
208
209 Glu Trp Met Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr
210                               50                               55                               60
211
212 Ala Gln Lys Phe Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser
213                               65                               70                               75
214
215 Thr Ser Thr Val Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp
216                               80                               85                               90
217
218 Thr Ala Val Tyr Tyr Cys Ala
219                               95
220
221 (2) INFORMATION FOR SEQ ID NO:17:
222 (i) SEQUENCE CHARACTERISTICS:
223 (A) LENGTH: 117 AMINO ACIDS
224 (B) TYPE: AMINO ACID
225 (D) TOPOLOGY: LINEAR
226 (ii) MOLECULE TYPE: PROTEIN
227 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:
228 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
229                               5                               10                               15
230
231 Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Asn Ile Lys
232                               20                               25                               30
233
234 Asp Tyr Tyr Ile Tyr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
235                               35                               40                               45
236
237 Glu Trp Ile Gly Trp Ile Asp Pro Glu Asn Gly Asn Thr Val Phe
238                               50                               55                               60
239
240 Asp Pro Lys Phe Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser
241                               65                               70                               75
242
243 Thr Ser Thr Val Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp
244                               80                               85                               90
245
246 Thr Ala Val Tyr Tyr Cys Ala Tyr Tyr Gly Thr Ser Ser Phe Asp
247                               95                               100                               105
248
249 Phe Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
250                               110                               115
251
252 (2) INFORMATION FOR SEQ ID NO:18:
253 (i) SEQUENCE CHARACTERISTICS:
254 (A) LENGTH: 117 AMINO ACIDS
255 (B) TYPE: AMINO ACID
256 (D) TOPOLOGY: LINEAR
257 (ii) MOLECULE TYPE: PROTEIN
258 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

```

INPUT SET: S34912.raw

***** PREVIOUSLY ERRORED SEQUENCES - EDITED *****

43 (2) INFORMATION FOR SEQ ID NO:1:
44 (i) SEQUENCE CHARACTERISTICS:
45 (A) LENGTH: 27 BASE PAIRS
46 (B) TYPE: NUCLEIC ACID
47 (C) STRANDEDNESS: SINGLE
48 (D) TOPOLOGY: LINEAR
49 (ii) MOLECULE TYPE: Oligonucleotide
50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
51 AGCGGATCCA GGGGCCAGTG GATAGAC 27
52

93 (2) INFORMATION FOR SEQ ID NO:6:
94 (i) SEQUENCE CHARACTERISTICS:
95 (A) LENGTH: 30 NUCLEOTIDES
96 (B) TYPE: NUCLEIC ACID
97 (C) STRANDEDNESS: SINGLE
98 (D) TOPOLOGY: LINEAR
99 (ii) MOLECULE TYPE: Oligonucleotide
100 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
101 CACGTCGACA TTCAGCTGAC CCAGTCTCCA 30
102

103 (2) INFORMATION FOR SEQ ID NO:7:
104 (i) SEQUENCE CHARACTERISTICS:
105 (A) LENGTH: 30 NUCLEOTIDES
106 (B) TYPE: NUCLEIC ACID
107 (C) STRANDEDNESS: SINGLE
108 (D) TOPOLOGY: LINEAR
109 (ii) MOLECULE TYPE: Oligonucleotide
110 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
111 CGGAATTCAG GTNNANCTGC AGNAGTCWGG 30
112

113 (2) INFORMATION FOR SEQ ID NO:8:
114 (i) SEQUENCE CHARACTERISTICS:
115 (A) LENGTH: 28 NUCLEOTIDES
116 (B) TYPE: NUCLEIC ACID
117 (C) STRANDEDNESS: SINGLE
118 (D) TOPOLOGY: LINEAR
119 (ii) MOLECULE TYPE: Oligonucleotide
120 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
121 CCCAAGCTTG GTCCCCCCTC CGAACGTG 28
122

123 (2) INFORMATION FOR SEQ ID NO:9:
124 (i) SEQUENCE CHARACTERISTICS:
125 (A) LENGTH: 39 NUCLEOTIDES

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/158,120BDATE: 03/01/2000
TIME: 19:04:45

INPUT SET: S34912.raw

126 (B) TYPE: NUCLEIC ACID
127 (C) STRANDEDNESS: SINGLE
128 (D) TOPOLOGY: LINEAR
129 (ii) MOLECULE TYPE: Oligonucleotide
130 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
131 GGCCTCGACT CACCATGGAC ATGAGGGTCC YCGCTCAGC 39
132

133 (2) INFORMATION FOR SEQ ID NO:10:
134 (i) SEQUENCE CHARACTERISTICS:
135 (A) LENGTH: 57 NUCLEOTIDES
136 (B) TYPE: NUCLEIC ACID
137 (C) STRANDEDNESS: SINGLE
138 (D) TOPOLOGY: LINEAR
139 (ii) MOLECULE TYPE: Oligonucleotide
140 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
141 GTCACCATCA CTTGCAAGTG CCAGCTGAGT GTAGGTTACA TGCACTGGTA CCAGCAG 57
142

143 (2) INFORMATION FOR SEQ ID NO:11:
144 (i) SEQUENCE CHARACTERISTICS:
145 (A) LENGTH: 54 NUCLEOTIDES
146 (B) TYPE: NUCLEIC ACID
147 (C) STRANDEDNESS: SINGLE
148 (D) TOPOLOGY: LINEAR
149 (ii) MOLECULE TYPE: Oligonucleotide
150 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
151 GCAACTTATT ACTGCTTTCA GGGGAGTGGG TACCCATTCA CGTTCGGAGG GGGG 54
152

153 (2) INFORMATION FOR SEQ ID NO:12:
154 (i) SEQUENCE CHARACTERISTICS:
155 (A) LENGTH: 32 NUCLEOTIDES
156 (B) TYPE: NUCLEIC ACID
157 (C) STRANDEDNESS: SINGLE
158 (D) TOPOLOGY: LINEAR
159 (ii) MOLECULE TYPE: Oligonucleotide
160 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
161 GTGACCAACA TGGACCCTGC TGATACTGCC AC 32
162

163 (2) INFORMATION FOR SEQ ID NO:13:
164 (i) SEQUENCE CHARACTERISTICS:
165 (A) LENGTH: 29 NUCLEOTIDES
166 (B) TYPE: NUCLEIC ACID
167 (C) STRANDEDNESS: SINGLE
168 (D) TOPOLOGY: LINEAR
169 (ii) MOLECULE TYPE: Oligonucleotide
170 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
171 CCATGTTGGT CACTTTAAGG ACCACCTGG 29
172

173 (2) INFORMATION FOR SEQ ID NO:14:

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/158,120BDATE: 03/01/2000
TIME: 19:04:46

INPUT SET: S34912.raw

174 (i) SEQUENCE CHARACTERISTICS:
175 (A) LENGTH: 37 NUCLEOTIDES
176 (B) TYPE: NUCLEIC ACID
177 (C) STRANDEDNESS: SINGLE
178 (D) TOPOLOGY: LINEAR
179 (ii) MOLECULE TYPE: Oligonucleotide
180 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:
181 CCAGTTTACT AGTGT CATAG ATCAGGAGCT TAGGGGC 37
182

183 (2) INFORMATION FOR SEQ ID NO:15:
184 (i) SEQUENCE CHARACTERISTICS:
185 (A) LENGTH: 37 NUCLEOTIDES
186 (B) TYPE: NUCLEIC ACID
187 (C) STRANDEDNESS: SINGLE
188 (D) TOPOLOGY: LINEAR
189 (ii) MOLECULE TYPE: Oligonucleotide
190 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:
191 TGACACTACT AAAGTGGCTT CTGGGGTCCC ATCAAGG 37
192

371 (2) INFORMATION FOR SEQ ID NO:22:
372 (i) SEQUENCE CHARACTERISTICS:
373 (A) LENGTH: 117 NUCLEOTIDES
374 (B) TYPE: NUCLEIC ACID
375 (C) STRANDEDNESS: SINGLE
376 (D) TOPOLOGY: LINEAR
377 (ii) MOLECULE TYPE: Oligonucleotide
378 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:
379 CCATGGACTG GACCTGGAGG GTCTTCTGCT TGCTGGCTGT AGCACCAGGT GCCCACTCCC 60
380 AGGTGCAGCT GGTGCAGTCT GGAGCTGAGG TGAAGAAGCC TGGAGCCTCA GTGAAGG 117
381

382 (2) INFORMATION FOR SEQ ID NO:23:
383 (i) SEQUENCE CHARACTERISTICS:
384 (A) LENGTH: 120 NUCLEOTIDES
385 (B) TYPE: NUCLEIC ACID
386 (C) STRANDEDNESS: SINGLE
387 (D) TOPOLOGY: LINEAR
388 (ii) MOLECULE TYPE: Oligonucleotide
389 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:
390 CACTTCTTCG GACCTCGGAG TCACTTCCAA AGGACGTTCC GTAGACCTAA GTTGTAATTC 60
391 CTGATGATGT AAATGACCCA CGCTGTCCGA GGACCTGTTC CCGAGCTCAC CTACCCAACC 120
392

393 (2) INFORMATION FOR SEQ ID NO:24:
394 (i) SEQUENCE CHARACTERISTICS:
395 (A) LENGTH: 119 NUCLEOTIDES
396 (B) TYPE: NUCLEIC ACID
397 (C) STRANDEDNESS: SINGLE
398 (D) TOPOLOGY: LINEAR
399 (ii) MOLECULE TYPE: Oligonucleotide
400 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/158,120BDATE: 03/01/2000
TIME: 19:04:46

INPUT SET: S34912.raw

401 GGGCTCGAGT GGATGGGTTG GATTGACCCT GAGAATGGTA ATACTGTGTT TGACCGAAGT 60
402 TCCAGGGCAG AGTCACCATG ACCAGGGACA CGTCCACGAG CACAGTCTAC ATGGAGCTG 119
403

404 (2) INFORMATION FOR SEQ ID NO:25:

405 (i) SEQUENCE CHARACTERISTICS:

406 (A) LENGTH: 137 NUCLEOTIDES

407 (B) TYPE: NUCLEIC ACID

408 (C) STRANDEDNESS: SINGLE

409 (D) TOPOLOGY: LINEAR

410 (ii) MOLECULE TYPE: Oligonucleotide

411 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

412 GGTGCTCGTG TCAGATGTAC CTCGACTCGT CGGACTCTAG ACTCCTGTGC CGGCACATAA 60
413 TGACACGCAT GATGCCATGT TCGAGGAAAC TGAAGACCCC GGTTCCTGG TGAGAGTGTG 120
414 ACTCGAGTAT TCCTAGG 137
415

416 (2) INFORMATION FOR SEQ ID NO:26:

417 (i) SEQUENCE CHARACTERISTICS:

418 (A) LENGTH: 106 NUCLEOTIDES

419 (B) TYPE: NUCLEIC ACID

420 (C) STRANDEDNESS: SINGLE

421 (D) TOPOLOGY: LINEAR

422 (ii) MOLECULE TYPE: Oligonucleotide

423 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

424 CCATGGACAT GAGGGTCCCC GCTCAGCTCC TGGGGCTCCT GCTGCTCTGG CTCCCAGGTG 60
425 CCAAATGTGA TATCCAGATG ACCCAGTCTC CTTCCACCCT GTCTGC 106
426

427 (2) INFORMATION FOR SEQ ID NO:27:

428 (i) SEQUENCE CHARACTERISTICS:

429 (A) LENGTH: 107 NUCLEOTIDES

430 (B) TYPE: NUCLEIC ACID

431 (C) STRANDEDNESS: SINGLE

432 (D) TOPOLOGY: LINEAR

433 (ii) MOLECULE TYPE: Oligonucleotide

434 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

435 GTCAGAGGAA GGTGGGACAG ACGTAGACAT CCTCTGTCTC AGTGGTAGTG AACGTTCCGC 60
436 TCAGTCCTGT AATTATCCAT AAATTTGACC ATGGTCGTCT TTGGGCC 107
437

438 (2) INFORMATION FOR SEQ ID NO:28:

439 (i) SEQUENCE CHARACTERISTICS:

440 (A) LENGTH: 107 NUCLEOTIDES

441 (B) TYPE: NUCLEIC ACID

442 (C) STRANDEDNESS: SINGLE

443 (D) TOPOLOGY: LINEAR

444 (ii) MOLECULE TYPE: Oligonucleotide

445 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

446 GAAAGCCCCT AAGCTCCTGA TCTATCGTGC AAACAGATTG GTAGATGGGG TCCCATCAAG 60
447 GTTCAGCGGC AGTGGATCTG GGACAGAATT CACTCTCACC ATCAGCA 107
448

449 (2) INFORMATION FOR SEQ ID NO:29:

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/158,120BDATE: 03/01/2000
TIME: 19:04:46

INPUT SET: S34912.raw

450 (i) SEQUENCE CHARACTERISTICS:
451 (A) LENGTH: 116 NUCLEOTIDES
452 (B) TYPE: NUCLEIC ACID
453 (C) STRANDEDNESS: SINGLE
454 (D) TOPOLOGY: LINEAR
455 (ii) MOLECULE TYPE: Oligonucleotide
456 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:
457 GTCTTAAGTG AGAGTGGTAG TCGTCGGACG TCGGACTACT AAAACGTTGA ATAATGACGG 60
458 ATGTCAAAGT ACTCAAAGGC ATGTGCAAGC CTCCCCCTG GTTCGAACTT TATTTT 116
459

641 (2) INFORMATION FOR SEQ ID NO:36:
642 (i) SEQUENCE CHARACTERISTICS:
643 (A) LENGTH: 63 NUCLEOTIDES
644 (B) TYPE: NUCLEIC ACID
645 (C) STRANDEDNESS: SINGLE
646 (D) TOPOLOGY: LINEAR
647 (ii) MOLECULE TYPE: Oligonucleotide
648 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:
649 GCCTGAGCTC ACGGTGACCG TGGTCCCGCC GCCCAGACA TCGAAGTAGC AGTTCGTGAT CAT 63
650

651 (2) INFORMATION FOR SEQ ID NO:37:
652 (i) SEQUENCE CHARACTERISTICS:
653 (A) LENGTH: 79 NUCLEOTIDES
654 (B) TYPE: NUCLEIC ACID
655 (C) STRANDEDNESS: SINGLE
656 (D) TOPOLOGY: LINEAR
657 (ii) MOLECULE TYPE: Oligonucleotide
658 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:
659 GTTGGTGACT TTAAGGACCA CCTGGTTTTT GGAGGTATCC TTGGAGATTG TGAGCCGGCT 60
660 CTTCAGCCAT GGATTATAG 79
661

662 (2) INFORMATION FOR SEQ ID NO:38:
663 (i) SEQUENCE CHARACTERISTICS:
664 (A) LENGTH: 89 NUCLEOTIDES
665 (B) TYPE: NUCLEIC ACID
666 (C) STRANDEDNESS: SINGLE
667 (D) TOPOLOGY: LINEAR
668 (ii) MOLECULE TYPE: Oligonucleotide
669 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:
670 GCGCCTTCCC TGGGGGCTGA CGAATCCAGC CTACACTCAT ACCAGAAGTG CTCAGTGAAA 60
671 ACCCAGAGAA GGTGGAGGTC AGTGTGAGG 89
672

673 (2) INFORMATION FOR SEQ ID NO:39:
674 (i) SEQUENCE CHARACTERISTICS:
675 (A) LENGTH: 70 NUCLEOTIDES
676 (B) TYPE: NUCLEIC ACID
677 (C) STRANDEDNESS: SINGLE
678 (D) TOPOLOGY: LINEAR
679 (ii) MOLECULE TYPE: Oligonucleotide

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/158,120BDATE: 03/01/2000
TIME: 19:04:47

INPUT SET: S34912.raw

680 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:
681 CCAGGTCACC TTAAGGGAGT CTGGTCCTGC GCTGGTGAAA CCCACACAGA CCCTCACACT 60
682 GACCTGCACC 70
683

684 (2) INFORMATION FOR SEQ ID NO:40:

685

686 (i) SEQUENCE CHARACTERISTICS:

687 (A) LENGTH: 78 NUCLEOTIDES

688 (B) TYPE: NUCLEIC ACID

689 (C) STRANDEDNESS: SINGLE

690 (D) TOPOLOGY: LINEAR

691 (ii) MOLECULE TYPE: Oligonucleotide

692 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

693 CAGCCCCCAG GGAAGGCCCT GGAGTCGCTT GCAGACATTT GGTGGGATGA CAAAAAGGAC 60

694 TATAATCCAT CCCTGAAG 78
695

696 (2) INFORMATION FOR SEQ ID NO:41:

697 (i) SEQUENCE CHARACTERISTICS:

698 (A) LENGTH: 64 NUCLEOTIDES

699 (B) TYPE: NUCLEIC ACID

700 (C) STRANDEDNESS: SINGLE

701 (D) TOPOLOGY: LINEAR

702 (ii) MOLECULE TYPE: Oligonucleotide

703 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:

704 GGTCCTTAAA GTGACCAACA TGGACCCTGC TGATACTGCC ACTTACTACT GTGCTCGGTC 60

705 TATG 64
706

707 (2) INFORMATION FOR SEQ ID NO:42:

708 (i) SEQUENCE CHARACTERISTICS:

709 (A) LENGTH: 72 NUCLEOTIDES

710 (B) TYPE: NUCLEIC ACID

711 (C) STRANDEDNESS: SINGLE

712 (D) TOPOLOGY: LINEAR

713 (ii) MOLECULE TYPE: Oligonucleotide

714 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:

715 GGCGTCGACT CACCATGGAC TGGACCTGGA GGGTCTTCTG CTTGCTGGCT GTAGCACCAG 60

716 GTGCCCCACTC CC 72
717

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/09/158,120B*

DATE: 03/01/2000
TIME: 19:04:47

INPUT SET: S34912.raw

| Line | Error | Original Text |
|------|----------------------|-------------------------|
| 25 | Wrong Classification | (C) CLASSIFICATION: 424 |